

UNITED STATES DEPARTMENT OF COMMERCE Pat nt and Trademark Offic

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO
09/346.28	3 07/01/9	9 FLANNERY	Y	450.202US:
	– MMC2/1214 LUNDBERG WOESSNER & KLUTH PA 38 IS MN 55402		EXAMINER	
LO BOY 53		OESSNER & KLUTH PA	DIA:	Z, I PAPER NUMBER
			2815 DATE MAILED:	_
				12/14/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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	Application No.	Applicant(s)			
	09/346,283	FLANNERY, MICHAEL R.			
Office Action Summary	Examiner	Art Unit			
	José R. Díaz	2815			
The MAILING DATE of this communicat					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAL. - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communical. If the period for reply specified above is less than thirty (30) of the No period for reply is specified above, the maximum statutes. Failure to reply within the set or extended period for reply will. - Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). Status	ATION. 37 CFR 1.136 (a). In no event, however, may a recation. lays, a reply within the statutory minimum of thirtory period will apply and will expire SIX (6) MON', by statute, cause the application to become AB	reply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed	on 13 November 2000				
Since this application is in condition for closed in accordance with the practice.	.— or allowance except for formal mat				
Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the appl	lication.				
4a) Of the above claim(s) is/are	withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claims are subject to restriction	n and/or election requirement.				
Application Papers					
9) The specification is objected to by the I	Examiner.				
10) The drawing(s) filed on is/are ob	ejected to by the Examiner.				
11) The proposed drawing correction filed	on is: a)□ approved b)□	disapproved.			
12) The oath or declaration is objected to b	y the Examiner.				
Priority under 35 U.S.C. § 119					
13) Acknowledgment is made of a claim fo	r foreign priority under 35 U.S.C. §	i 119(a)-(d).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority do	cuments have been received.				
2. Certified copies of the priority do	cuments have been received in Ap	pplication No			
application from the Internati	the priority documents have been onal Bureau (PCT Rule 17.2(a)).	-			
* See the attached detailed Office action for	·				
14) Acknowledgement is made of a claim f	or domestic phority under 35 U.S.	C. o. 119(e).			
Attachment(s)					
15) Notice of References Cited (PTO-892)	18) 🗌 Interview	Summary (PTO-413) Paper No(s)			
 16) Notice of Draftsperson's Patent Drawing Review (PTG 17) Information Disclosure Statement(s) (PTG-1449) Pap 	O-948) 19) Notice of	Informal Patent Application (PTO-152)			



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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Parkhurst et al. (US Patent No. 5,412,372).

Regarding claims 1 and 7, Parkhurst et al. disclose an integrated circuit (Figure 10) with a micromechanical element (380) comprising a support substrate (dash lines) supporting a sensor element (374), a logic circuit (350), and a semiconductor visual display element (360), the sensor element electrically connected to a logic circuit, and the logic circuit being electrically connected to the semiconductor visual display element (See Figure 10).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parkhurst et al. (US Patent No. 5,412,372) in view of Ishii et al. and further in view of Applicant's disclosure.



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Parkhurst et al., as stated supra, essentially discloses the claimed invention but fails to teach an array of GaAs light-emitting pn junctions. Regarding claims 2-3, Ishii et al. teach that a clock comprises a liquid crystal display element which is formed using GaAs and LED (column 1, lines 17-24; and column 10, lines 10-22). Ishii et al. provide motivation to use such structure in that it provides a high precision and bright display (column 2, lines 51-53). Regarding the dimension ranges disclosed by Applicant in claims 4-6, Applicant acknowledges that it is well known in the art to form such an array of pixels using GaAs (page 7, lines 20-25).

Therefore, it would have been obvious to one having ordinary skill in the art at the same time the invention was made to have modified Parkhurst et al. to include a liquid crystal display element which is formed using GaAs as taught by Ishii et al. in view of Applicant's disclosure, since such modification would result in a structure having a high precision and bright display, as described in column 2, lines 51-53 of Ishii et al.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chiu et al. (US Patent No. 6,014,120) disclose LED display controller. Brady et al. (US Patent No. 5,543,988) disclose Hall sensor with high spatial resolution in two directions concurrently. Thierry (US Patent No. 6,137,165) discloses hybrid package including a power MOSFET die and a control and protection circuit die with a smaller sense MOSFET. Gupta et al. (US Patent No. 5,557,739) disclose computer system with component removal and replacement control scheme. Orava et

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al. US Patent No. 5,812,191) disclose semiconductor high-energy radiation imaging

device.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to José R. Díaz whose telephone number is (703) 308-

6078. The examiner can normally be reached on 8:00 - 5:00 Monday through Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on (703) 308-1690. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7722

for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

JRD

December 8, 2000

EDDIE O. LEE

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